3000785
SONY BDA
TAF444ESII
3594

SONY®

INTEGRATED STEREO AMPLIFIER

TA-F444ESII/TA-F555ESII

OPERATING INSTRUCTIONS Page 7

Before operating the unit, please read this manual thoroughly.
This manual should be retained for future reference.

MODE D'EMPLOI Page 16

Avant la mise en service de l'appareil, lire attentivement ce mode d'emploi et le conserver pour toute référence future.

BEDIENUNGSANLEITUNG Seite 26

Vor Inbetriebnahme lesen Sie bitte diese Bedienungsanleitung aufmerksam durch.
Bewahren Sie diese Anleitung zum späteren Nachschlagen gut auf.

MANUAL DE INSTRUCCIONES Página 36

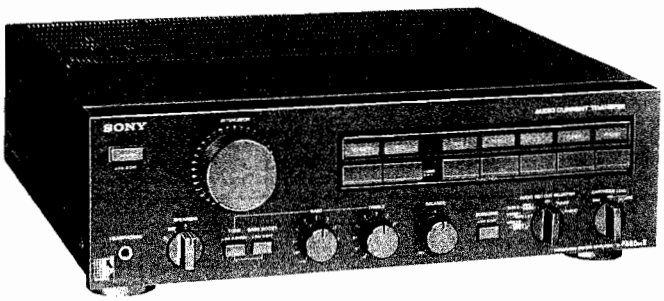
Antes de manipular el aparato, lea este manual detenidamente.
Consérvelo para futuras referencias.

GEBRUIKSAANWIJZING blz. 46

Less deze gebruiksaanwijing aandachtig door alvorens het apparaat in gebruik te nemen en bewaar de gebruiksaanwijzing voor eventuele naslag.

BRUKSANVISNING sid 56

Läs igenom bruksanvisningen noga, innan du använder apparaten.
Behåll den sedan för framtida bruk.



© 1985 by Sony Corporation

3594

For the customers in the United States

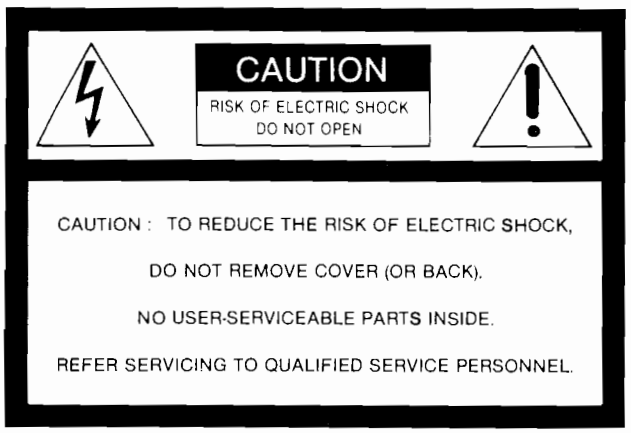
OWNER'S RECORD

The model and serial numbers are located at the rear. Record the model and serial numbers in the spaces provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

As you read, fold back this page and refer to the photo and illustrations on pages 3 to 6.

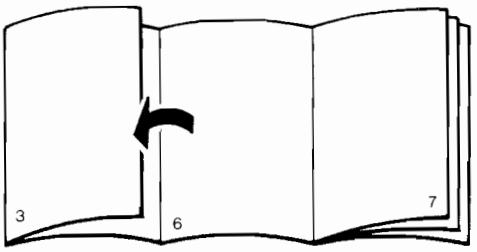
Avant la lecture, déplier cette page et consulter la photo et les illustrations des pages 3 à 6.

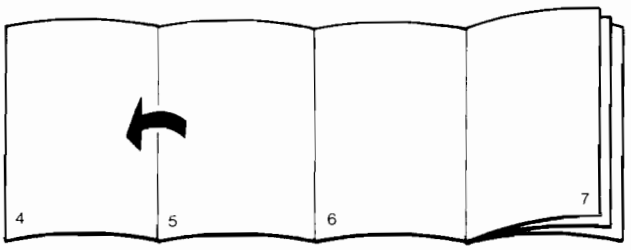
Falten Sie beim Lesen diese Seite heraus, und betrachten Sie das Foto und die Abbildungen auf den Seiten 3 bis 6.

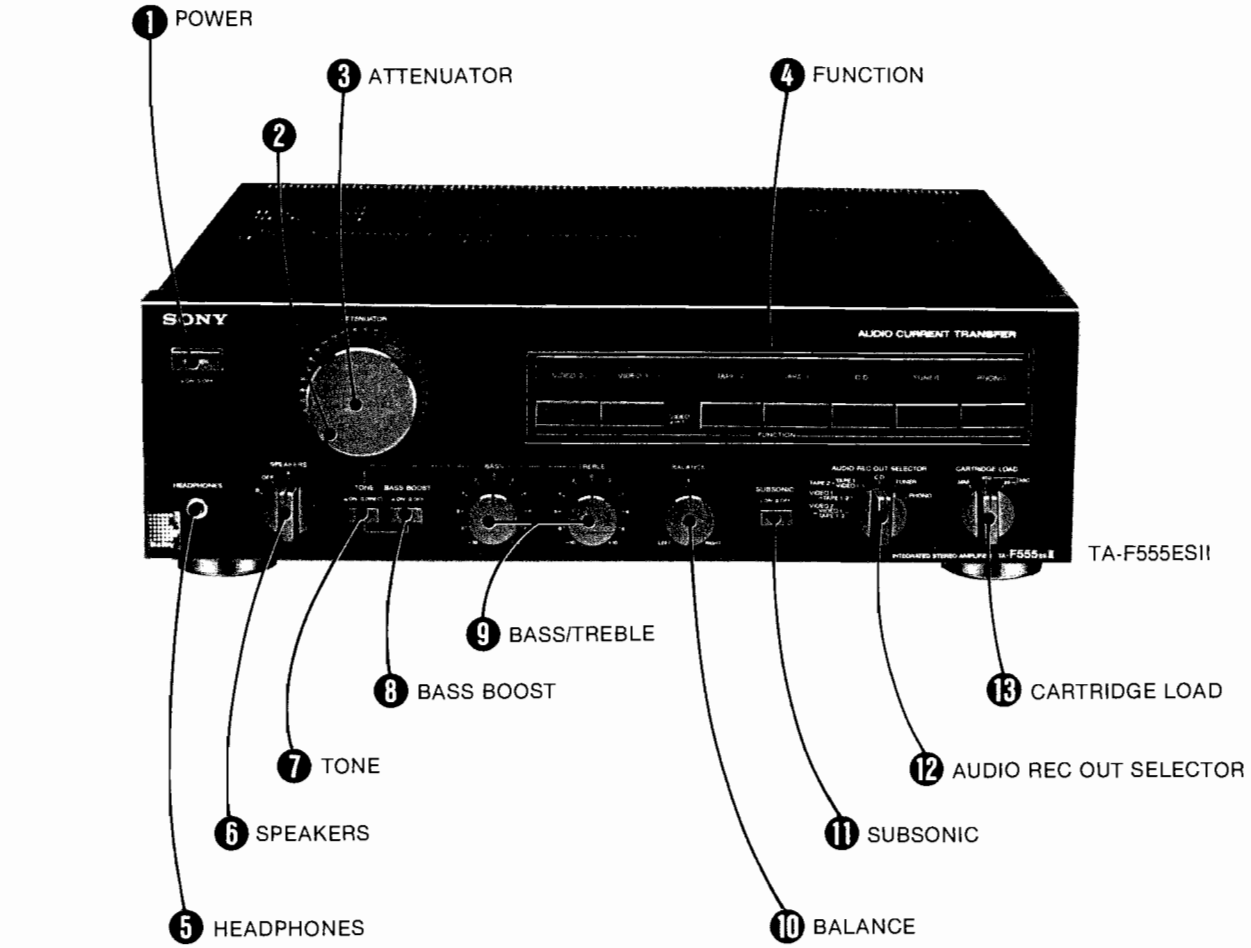
Cuando lea este manual, abra esta página y refiérase a la foto y las ilustraciones de las páginas 3 a 6.

Vouw bij het doorlezen van de tekst deze pagina uit en bekijk de foto en afbeeldingen op blz. 3 t/m 6.

Slå upp den här sidan och se på bilderna och fotografiet på sidorna 3 - 6 när du läser igenom bruksanvisningen.



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TA-F555ESII
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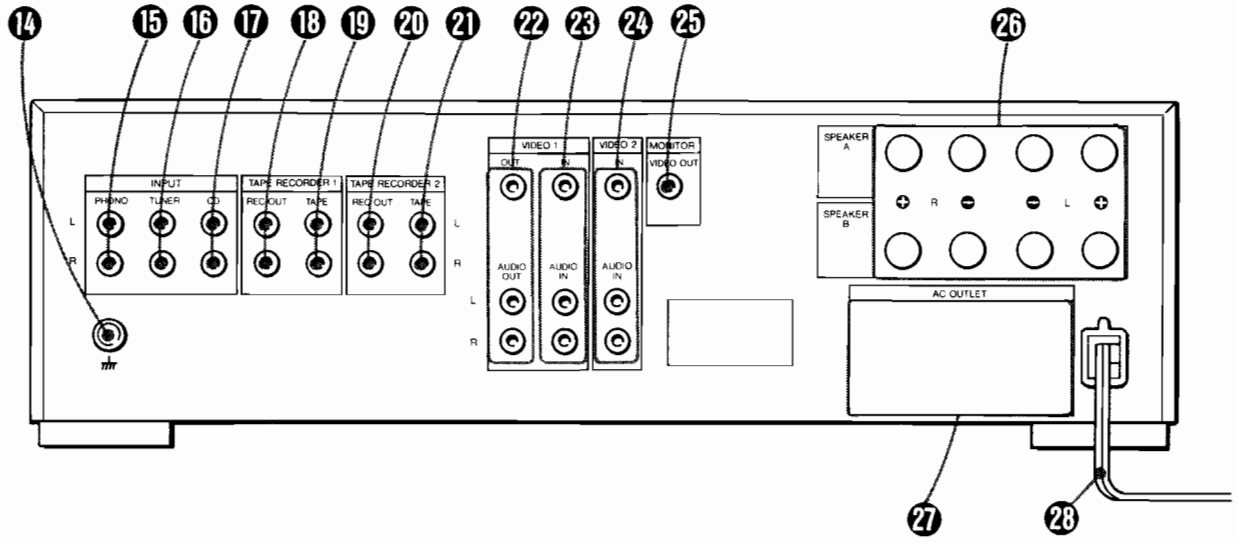
8 BASS BOOST
13 CARTRIDGE LOAD
7 TONE
12 AUDIO REC OUT SELECTOR
6 SPEAKERS
11 SUBSONIC
5 HEADPHONES
10 BALANCE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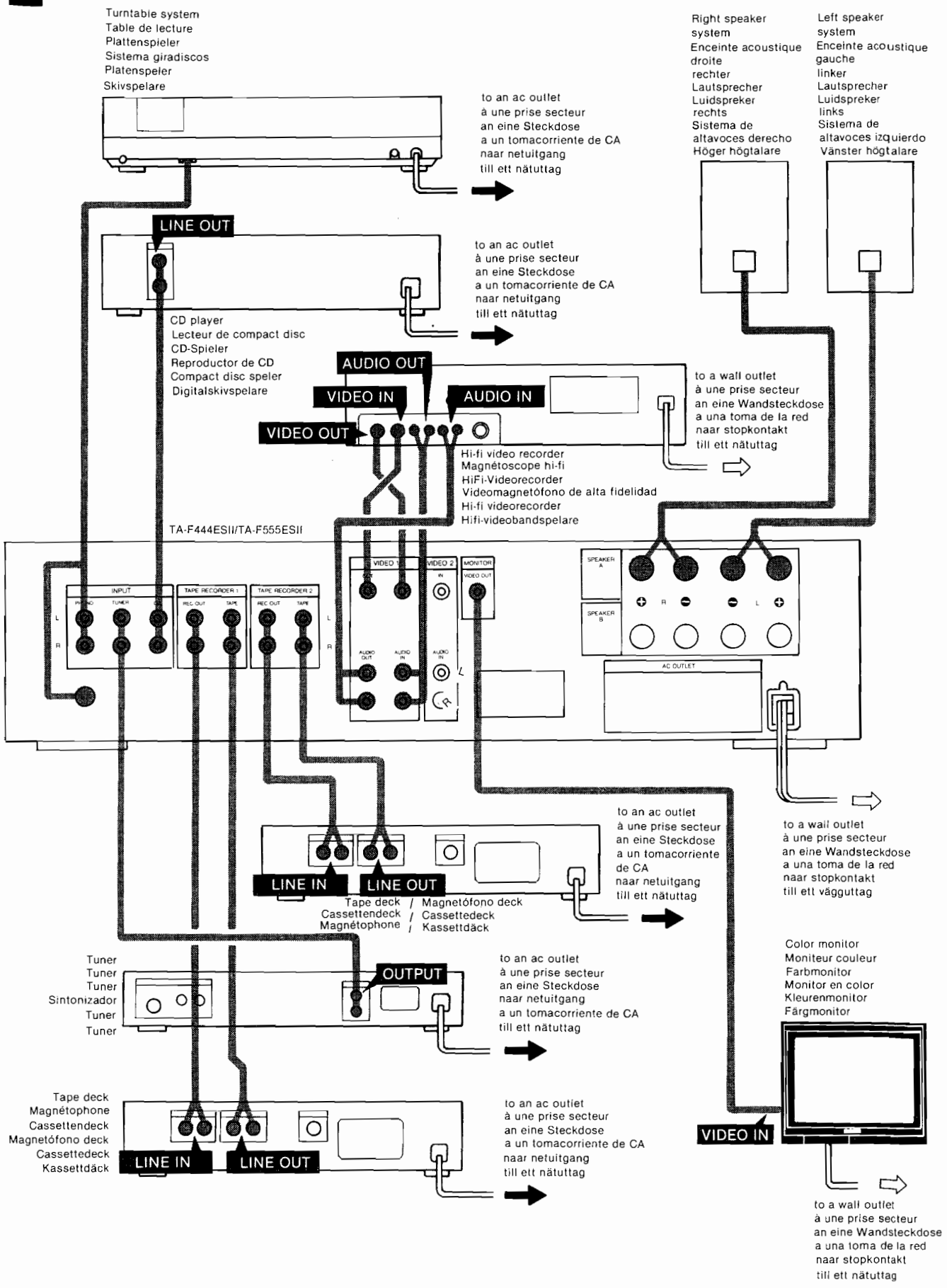
Turntable system
Table de lecture
Plattenspieler
Sistema giradiscos
Platenspeler
Skivspelare
to an ac outlet
à une prise secteur
an eine Steckdose
a un tomacorriente de CA
naar netuitgang
till ett nätuttag
Right speaker system
Enceinte acoustique droite
rechter Lautsprecher
Luidspreker rechts
Sistema de altavoces derecho
Höger högtalare
Left speaker system
Enceinte acoustique gauche
linker Lautsprecher
Luidspreker links
Sistema de altavoces izquierdo
Vänster högtalare
LINE OUT
CD player
Lecteur de compact disc
CD-Spieler
Reproductor de CD
Compact disc speler
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VIDEO OUT
to a wall outlet
à une prise secteur
an eine Wandsteckdose
a una toma de la red
naar stopkontakt
till ett nätuttag
Hi-fi video recorder
Magnétoscope hi-fi
HiFi-Videorecorder
Videomagnetófono de alta fidelidad
Hi-fi videorecorder
Hifi-videobandspelare
TA-F444ESII/TA-F555ESII
INPUT
TAPE RECORDER 1
TAPE RECORDER 2
VIDEO 1
VIDEO 2
MONITOR
SPEAKER A
SPEAKER B
AC OUTLET
to a wall outlet
à une prise secteur
an eine Wandsteckdose
a una toma de la red
naar stopkontakt
till ett vägguttag
LINE IN
LINE OUT
Tape deck / Magnétofono deck
Cassettendeck / Cassettedeck
Magnétophone / Kassettdäck
to an ac outlet
à une prise secteur
an eine Steckdose
a un tomacorriente de CA
naar netuitgang
till ett nätuttag
Tuner
Tuner
Tuner
Sintonizador
Tuner
Tuner
OUTPUT
to an ac outlet
à une prise secteur
an eine Steckdose
naar netuitgang
a un tomacorriente de CA
till ett nätuttag
Color monitor
Moniteur couleur
Farbmonitor
Monitor en color
Kleurenmonitor
Färgmonitor
Tape deck
Magnétophone
Cassettendeck
Magnetófono deck
Cassettedeck
Kassettdäck
LINE IN
LINE OUT
to an ac outlet
à une prise secteur
an eine Steckdose
a un tomacorriente de CA
naar netuitgang
till ett nätuttag
VIDEO IN
to a wall outlet
à une prise secteur
an eine Wandsteckdose
a una toma de la red
naar stopkontakt
till ett nätuttag

B

Component TV
Composant TV
TV-Gerät
TV de componentes
Televisie
TV-mottagare i videoanläggning

to RF IN
à RF IN
an RF IN
a RF IN
naar RF IN
till radiofrekvensingång (RF IN)

Antenna
Antenne
Antenne
Antena
Antenne
Antenn

Monaural video recorder
Magnétoscope monaural
Mono-Videorecorder
Videomagnetófono monoaural
Mono videorecorder
Enkanalig videobandspelare

RF OUT
RF IN
AUDIO OUT

to a wall outlet
à une prise secteur
an eine Wandsteckdose
a una toma de la red
naar stopkontakt
till ett vägguttag

RK-C71 connecting cord (option)
(phono plug × 2 ⟷ phono plug × 1)
Cordon de raccordement RK-C71
(en option)
(2 fiches coaxiales phono à 1 fiche coaxiale phono)
Verbindungskabel RK-C71 (Sonderzubehör)
(Cinchstecker x 2⟷Cinchstecker x 1)
Cable conector RK-C71 (opcional)
(clavija fono × 2 ⟷ clavija fono × 1)
RK-C71 aansluitsnoer (los verkrijgbaar)
(2 tulpstekkers ⟷ 1 tulpstekker)
Anslutningskabel RK-C71 (valfritt tillbehör)
(phonokontakt × 2 ⟷ phonokontakt × 1)

TA-F444ESII/TA-F555ESII

VIDEO 1
VIDEO 2
MONITOR
AUDIO IN
L
R

C

Hi-fi video recorder (for recording)
Magnétoscope hi-fi (pour l'enregistrement)
HiFi-Videorecorder (für Aufnahme)
Videomagnetófono de alta fidelidad (para grabación)
Hi-fi videorecorder (voor opnemen)
Hifi-videobandspelare (för inspelning)

VIDEO IN
AUDIO OUT
VIDEO OUT
AUDIO IN

to a wall outlet
à une prise secteur
an eine Wandsteckdose
a una toma de la red
naar stopkontakt
till ett vägguttag

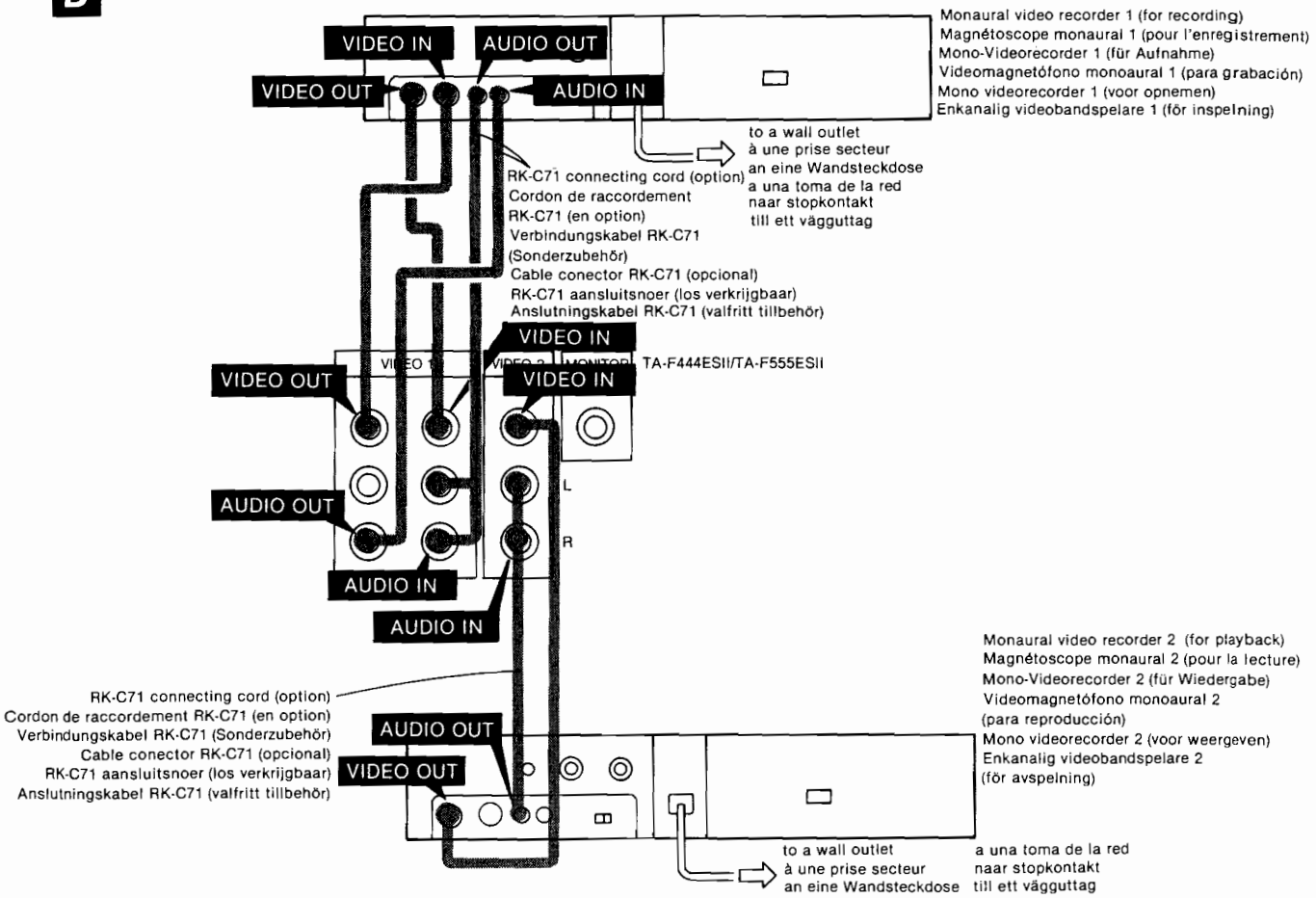
VIDEO IN
VIDEO IN
VIDEO 1
VIDEO 2
MONITOR
TA-F444ESII/TA-F555ESII
VIDEO OUT
AUDIO OUT
AUDIO IN
AUDIO IN

Hi-fi video recorder (for playback)
Magnétoscope hi-fi (pour la lecture)
HiFi-Videorecorder (für Wiedergabe)
Videomagnetófono de alta fidelidad (para reproducción)
Hi-fi videorecorder (voor weergeven)
Hifi-videobandspelare (för avspelning)

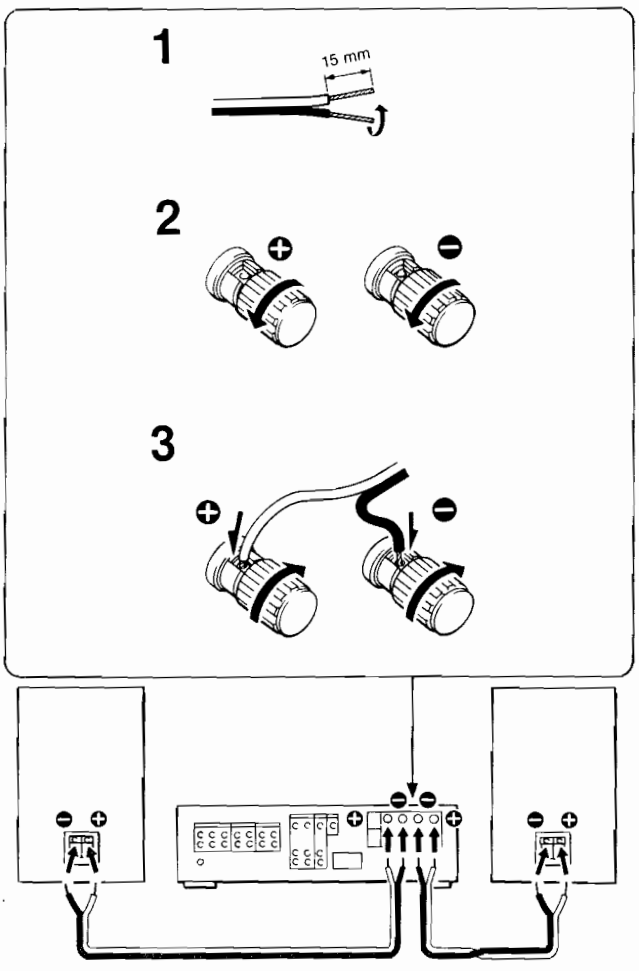
AUDIO OUT
VIDEO OUT

to a wall outlet
à une prise secteur
an eine Wandsteckdose
a una toma de la red
naar stopkontakt
till ett vägguttag

D



E



Right speaker system
Enceinte acoustique droite
rechter Lautsprecher
Sistema de altavoces derecho
Rechter luidspreker
Höger högtalare

Left speaker system
Enceinte acoustique gauche
linker Lautsprecher
Sistema de altavoces izquierdo
Linker luidspreker
Vänster högtalare

This manual covers five types :
The model for European countries (Type 1), the model for USA and Canada (Type 2), the model for West Germany (Type 3), the model for United Kingdom (Type 4) and the model for other countries (Type 5). Where differences occur between these types, they are clearly described in the text.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

NOTICE FOR THE CUSTOMERS IN THE UNITED KINGDOM

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

For the customers in Canada

CAUTION :
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

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FEATURES

A.C.T. (AUDIO CURRENT TRANSFER) TECHNOLOGY
With A.C.T. technology, which reduces interference and noise as low as possible, the 4 signals of right and left channels of the pre-amp and power amp sections are separated, obtaining the best performance at the normal listening level. (In the TA-F555ESII, the exclusively developed audio super Hi-f_T IC is employed.)

SUPER LEGATO LINEAR POWER AMPLIFIER STAGE
The operation of the power amplifier stage is stable without any observable distortion up through the higher frequencies. Because of its very low switching distortion, the output waveform is smooth.

POWERFUL POWER SUPPLY
Powerful transformers of 250 VA and 350 VA are respectively used in the power supply sections of the TA-F444ESII and TA-F555ESII to obtain rich sound. In addition, use of the ES filter together with the newly developed large chemical capacitor eliminates the power interference.

SELECTED AUDIO PARTS
A large heatsink and high-rigidity chassis are used to prevent thermal modulation distortion and vibration distortion, respectively. LC-OFC (Linear Crystal Oxion-free Copper) leads are used for internal wiring and speaker output coil. In addition, other audio parts are selected by frequent sound monitoring.

VARIOUS VIDEO OPERATIONS
This amplifier is equipped with 2 pairs of video jacks (one pair for playback/recording and one for playback) to allow you to perform various video operations.

SPEAKER PROTECTION CIRCUIT
When a short circuit or DC component is detected at the speaker outputs, the power/standby indicator blinks in red and the built-in speaker protection circuit functions to protect the speakers.

MUTING CIRCUIT
When the power is supplied, the power/standby indicator blinks in red and the muting circuit functions until the amplifier operation becomes stable.

CARTRIDGE SELECTOR
The high-gain equalizer amplifier stage accepts both MM (Moving-Magnet) and MC (Moving-Coil) cartridges.

AUDIO REC OUT SELECTOR SWITCH
With the AUDIO REC OUT SELECTOR switch, you can select the sound source to be recorded while listening to another audio source. This switch is also used to select tape (audio and video) dubbing and editing mode.

PRECAUTIONS

On safety
- Check that the operating voltage of your unit is identical with the voltage of your local power supply.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

On installation
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Good air circulation is essential to prevent internal heat build-up in the unit. Place the unit in a location with adequate air circulation. Do not place the unit on a soft surface, such as a rug that would block the ventilation holes on the bottom.
- Do not place anything on top of the cabinet. The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.

On operation
- Before making program source connections, be sure to turn the power switch off and unplug the unit.
- When the unit is not used, turn the power off to conserve energy and to extend the useful life of your unit.

On cleaning the cabinet
Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

On repacking
Do not throw away the carton and the packing material. It makes an ideal container to transport the unit in. When shipping the unit for repair work or to another location, repack it as illustrated on the carton box.

For the customers in the USA
For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS"

OPERATING VOLTAGE

Before connecting the unit to the power source, check that the operating voltage of your unit is the same as the local power line voltage.
The European model (type 1) operates on 220 V ac.
The USA and Canada models (type 2) operate only on 120 V ac.
The model for West Germany (type 3) operates only on 220 V ac.
The model for United Kingdom (type 4) operates on 240 V ac.
The model for other countries (type 5) operates on either 120, 220 or 240 V ac. The voltage selector is located on the rear panel. If the selector must be reset, **disconnect the ac power cord** and turn the selector with a coin so that the arrow on the selector points to the appropriate voltage.

FUNCTION OF CONTROLS

Each number in the text is keyed to that of the photo and illustration on page 3.

Front panel

❶ POWER switch
Turns the operating power on or off.

❷ Power/standby indicator
When the power is turned on, the muting circuit activates and the indicator blinks in red. The indicator then lights up in green indicating that the unit is now in standby.
The indicator will also blink in red when the protection circuit is activated.

❸ ATTENUATOR knob
Regulates the overall sound level.
Turning the knob toward 0 increases the volume and turning it toward $-\infty$ decreases the volume. Be sure to lower the volume whenever you turn the amplifier on or off.

❹ FUNCTION buttons and indicators
Press to select the desired audio or video program source. Press another button to change the program. The indicator lamp above the pressed button will light up, indicating the program in use.

❺ HEADPHONES jack
Accepts any low or high impedance stereo headphones.
For headphone monitoring only, set the SPEAKERS selector to OFF.

❻ SPEAKERS selector
Select speaker system A or B (Type 1, 3, 4).
Select speaker system A or B, or both (for the Canadian model of the TA-F555ESII and for Type 2 and 5 models of the TA-F444ESII).
For headphone monitoring only, set the SPEAKERS selector to OFF.

❼ TONE switch
Depress this switch (⎍ ON) when you adjust the tone controls or when you use the BASS BOOST switch.
While you keep the switch released (⎍ DIRECT), the tone control circuits are completely disconnected from the signal path and a flat frequency response is obtained.

❽ BASS BOOST switch
Depress this switch (⎍ ON) when you are driving a speaker system such as a small bookshelf type system, which has a weak bass response.
When the BASS BOOST switch is to be used, be sure to first depress the TONE switch (⎍ ON).

❾ BASS and TREBLE tone controls
These knobs control the prominence of bass and treble response. Clockwise rotation increases response; counterclockwise rotation decreases it. Adjust the tone to the acoustic condition of the listening room or to your preference.
When these tone controls are to be used, be sure to first depress the TONE switch (⎍ ON).

❿ BALANCE control
Governs the amount of sound coming from each paired speaker to get optimum stereo effect.

⓫ SUBSONIC filter switch
If subsonic noise components created by warped records, etc. are present, the audible range frequencies may be modulated and cause irritating intermodulation distortion. In this case, depress the switch (⎍ ON) to reduce unwanted noise components in the program source. The filter will cut off any input signals below 15 Hz at a 6 dB-per-octave rate. Press the switch again to release it (⎍ OFF).

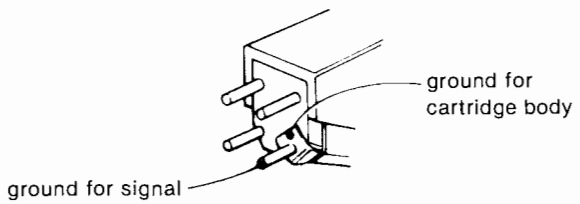
⓬ AUDIO REC OUT SELECTOR switch
Permits you to select the desired program source you want to record.
For tape dubbing or video editing, set this switch to appropriate position.

⓭ CARTRIDGE LOAD selector
Before you play a record, be sure to set the selector as follows:
Moving-Magnet (MM) type cartridge
Set the CARTRIDGE LOAD selector to MM.
Moving-Coil (MC) type cartridge
40 Ω: for a cartridge with an impedance of 40 ohms or more.
3 Ω: for a cartridge with an impedance in the 3 to 40 ohms range.

Rear panel

⓮ Ground terminal
To prevent hum, be sure to connect the ground wire of the turntable system to this ground terminal. If hum still exists, it may be helpful to connect the ground terminal directly to earth via a ground rod.

Note
In some particular MM cartridges, the ground for signal is connected to the ground for cartridge body. If this type of cartridge should be installed to a metal cartridge shell, current will flow through the tonearm ground in a loop and will cause hum noise. In this case, disconnect the turntable ground wire from the ⏚ terminal of the amplifier, or disconnect the ground for cartridge body from the ground for signal.



SYSTEM CONNECTIONS

⑮ **PHONO inputs (phono jack)**

⑯ **TUNER inputs (phono jack)**

⑰ **CD inputs (phono jack)**

⑱ **TAPE RECORDER 1 REC OUT outputs (phono jack)**
Accept the inputs of a tape deck for recording.

⑲ **TAPE RECORDER 1 TAPE inputs (phono jack)**
Accept the line outputs of a tape deck for playback.

⑳ **TAPE RECORDER 2 REC OUT outputs (phono jack)**
Accept the inputs of a second tape deck for recording.

㉑ **TAPE RECORDER 2 TAPE inputs (phono jack)**
Accept the line outputs of a second tape deck for playback.

㉒ **VIDEO 1 OUT output and VIDEO 1 AUDIO OUT outputs (phono jack)**
VIDEO 1 OUT: Accepts the video input of a video recorder.
VIDEO 1 AUDIO OUT: Accept the audio inputs of a video recorder.

㉓ **VIDEO 1 IN input and VIDEO 1 AUDIO IN inputs (phono jack)**
VIDEO 1 IN: Accepts the video output of a video recorder.
VIDEO 1 AUDIO IN: Accept the audio outputs of a video recorder.

㉔ **VIDEO 2 IN input and VIDEO 2 AUDIO IN inputs (phono jack)**
VIDEO 2 IN: Accepts the video output of a TV tuner for multiple video source connection, a monaural video recorder or a second video recorder for video editing.
VIDEO 2 AUDIO IN: Accept the audio outputs of a TV tuner for multiple video source connection, a monaural video recorder or a second video recorder for video editing.

㉕ **MONITOR VIDEO OUT output (phono jack)**
Accepts the input of a color monitor.

㉖ **SPEAKER A, B connectors**
For connecting a speaker system or two pairs of speaker systems. System A and system B can be selected by means of the front panel SPEAKERS selector.

㉗ **AC OUTLETs**
These are used to power other audio components whose power consumption is less than the wattage indicated on the ac outlet.

㉘ **Power cord**

CONNECTION NOTES

- The power cord should be connected last of all, first making sure that the POWER switch is turned off.
- The connecting cords with the red and white jacks are for audio signals. The red jacks are for right-channel connections and the white jacks for left-channel connections.
  The connecting cords with the yellow jack are for video signals.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.

TO CONNECT AN AUDIO AND VIDEO SYSTEM

For hooking up, see the connection diagram Fig. **A** on page 4.

TO CONNECT A MONAURAL VIDEO RECORDER

To play a monaural video recorder sound with this audio system, connect the monaural video recorder to VIDEO 2 jacks as shown in digram **B** on page 5.
An optional RK-C71 connecting cord (phono plug × 2 ↔ phono plug × 1) or RK-105A connecting cord (phono plug × 2 ↔ mini plug × 1) is needed. When the VIDEO jacks of your video recorder take a BNC connector, use the optional Sony EAC-57 plug adaptor (phono plug → BNC).

SPEAKER CONNECTION

Speaker cord connection (See Fig. **E**.)
1 Strip the outer covering and twist the wire.
2 Loosen the speaker terminal knob in the direction of the arrow.
3 Insert the speaker cord and tighten the speaker terminal knob in the direction of the arrow.

Generally speaker cords are coded with color, or mark, indicating the ⊕ ⊖ polarities. Remember the coding and prevent faulty connections.
Right speaker: to R SPEAKER terminals
Left speaker: to L SPEAKER terminals
⊕ code: for ⊕ connection
⊖ code: for ⊖ connection

Speaker placement
Here are a few suggestions on basic speaker placement.
— Place each speaker with its back 3 - 5 cm (1 1/4 - 2″) from a hard wall in a similar acoustic environment.
— Set your speaker system up on a hard, flat floor or pedestals. Carpets, draperies and upholstered furniture will minimize the multiple reflections of high-frequency sound which reduce the stereo effect.
— Generally we recommend that the speaker/listener relationship be an equilateral triangle. If the speaker separation is too wide, face the speakers a little towards each other.

— Place the speakers no higher than your ears when you are seated, if the speakers are to be positioned above the floor.

AC OUTLETS

These are used to power other audio components whose total power consumption is less than that listed below.

	Type 1, 3, 4	Type 2	Type 5
Switched (pcs.) / Power consumption	1 / 100 watts	2 / total 100 watts	1 / 100 watts
Unswitched (pcs.) / Power consumption	—	2 / total 100 watts	1 / 100 watts

The SWITCHED outlet is controlled by the front panel POWER switch.
The UNSWITCHED outlet (only on the type 2 and 5 models) is not controlled by the POWER switch.
Do not connect any electrical home appliance such as an electric iron, fan, TV or other high-wattage equipment to these ac outlets.
For customers of the type 5 model supplied with the plug adaptor: If necessary, use the plug adaptor to connect the amplifier to an ac outlet in the house. However, when making power connections among the Sony components, this adaptor is not needed.

TO LISTEN TO AUDIO PROGRAM SOURCES

1 Depress the POWER switches of the amplifier and connected source equipment to ON.
2 Press the appropriate FUNCTION button.
For a record program, press PHONO.
For a tuner program, press TUNER.
For a CD program connected to the CD jacks, press CD.
For a taped program, press TAPE 1 or 2.
For a video taped program, press VIDEO 1 or 2.
3 For a record program, select the cartridge type with the CARTRIDGE LOAD selector.
4 Start the program.
5 Adjust the ATTENUATOR knob to your preference.

FM simulcasted programs
For countries with FM simulcast programs, you can enjoy certain TV programs with FM stereo sound.

1 Depress the POWER switches of the amplifier and connected source equipment to ON.
2 Select the desired TV program with the video recorder or TV tuner.
3 Press the TUNER button.
4 On the tuner, tune in the FM simulcast TV program.
5 Adjust the ATTENUATOR knob control to your preference.

TAPE RECORDING

1 Depress the POWER switches of the amplifier and connected source equipment to ON.
2 Select the desired program source you want to record with the AUDIO REC OUT SELECTOR switch.
For a record program, set to PHONO.
For a tuner program, set to TUNER.
For a CD program, set to CD.
For a video program connected to VIDEO 1 jacks, set to VIDEO 1 → TAPE 1, 2.
For a video program source connected to VIDEO 2 jacks, set to VIDEO 2 → VIDEO 1/TAPE 1, 2.
For a program source connected to TAPE RECORDER 2 jacks, set to TAPE 2 → TAPE 1/VIDEO 1.
3 Select the program source to be listened to during recording with the FUNCTION button.
4 Play the program sources to be recorded and to be listened to.
5 Set the tape deck to the record mode.
6 Adjust the sound level to be listened to with the ATTENUATOR knob.

The ATTENUATOR, BALANCE and tone controls and the SUBSONIC filter and BASS BOOST switches have no effect on recording.

If you connect two tape decks to the amplifier, you can record the same program onto both tape decks simultaneously.

The tape recording from tape deck 1 to tape deck 2 is not possible.

Monitoring of a 3-head tape recorder
If your tape recorder has separate record and playback heads, you can monitor the recording results. Press the TAPE 1 (or 2) button to monitor the recording results of the tape recorder 1 (or 2). Press again to release it, and the source sound will be heard. Be sure to keep the monitor switch of the tape recorder in the TAPE position.

VIDEO OPERATION

HI-FI VIDEO RECORDING

1 Depress the POWER switches of the amplifier and connected source equipment to ON.
2 Select the desired program source with the AUDIO REC OUT SELECTOR switch.
For a record program, set to PHONO.
For a tuner program, set to TUNER.
For a CD program, set to CD.
For a video program connected to VIDEO 2 jacks, set to VIDEO 2 → VIDEO 1/TAPE 1, 2.
For a program source connected to TAPE RECORDER 2 jacks, set to TAPE 2 → TAPE 1/VIDEO 1.
3 Select the program source to be listened to during recording with the FUNCTION button.

4 Play the program sources to be recorded and to be listened to.
5 Set the hi-fi video deck to the record mode.
6 Adjust the sound level to be listened to with the ATTENUATOR knob.

For hi-fi video recording, the HiFi mode is recommended.

VIDEO TAPE EDITING

You can edit from video recorder 2 (connected to VIDEO 2 jacks) to video recorder 1 (connected to VIDEO 1 jacks). Editing from video recorder 1 to video recorder 2 is not possible.
For connection, see the connection diagrams C and D on pages 5 and 6.
Diagram C shows the connection for video editing from hi-fi video recorder to hi-fi video recorder. Diagram D shows the connection for video editing from monaural video recorder to monaural video recorder.

When monaural video recorder is connected with RK-C71 connecting cord, the stereo effect may be degraded. To listen to the audio sound, disconnect the L channel of the RK-C71 from the AUDIO OUT L jack of the amplifier.

1 Depress the POWER switches of the amplifier and video recorder to ON.
2 Press the VIDEO 1 ($\frac{VIDEO}{2 \rightarrow 1}$) button.
3 Set the AUDIO REC OUT SELECTOR switch to VIDEO 2 → VIDEO 1/TAPE 1, 2.
4 Start playback of video recorder 2 and set video recorder 1 into recording mode. For a hi-fi video recorder, make sure that the input selector of the video recorder is set to the correct position. Editing will begin.

During video tape editing, you can listen to the program source selected with FUNCTION button.

SUBSTITUTING SOUND OF THE VIDEO TAPE

During video editing, you can substitute sound from a tape deck or music from a turntable system for the sound already recorded. With this feature, you can make your own personalized video tape.

1 Depress the POWER switches of the amplifier and connected source equipment to ON.
2 Press the VIDEO 1 ($\frac{VIDEO}{2 \rightarrow 1}$) button.
3 Set the AUDIO REC OUT SELECTOR switch to PHONO, TUNER, CD or TAPE 2 → TAPE 1/VIDEO 1.
4 Start playback of video recorder 2 and recording of video recorder 1 and play the audio program source to be added. Editing will begin and program source sound will be added to the video tape.

TROUBLE CHECKS

Should any problem persist after you have made these checks, consult your nearest Sony service facility.
Before going through the check list below, first refer back to the connection and operating procedures.

No audio
- Check speaker and program source connections.
- Check the settings of the FUNCTION buttons.
- Turn up the volume.

No audio from one channel or unbalanced left and right volume
- Adjust the BALANCE control.
- Check the speaker and input connections of the inoperative channel.

Abrupt loss of sound from one or both of the speakers and the power/standby indicator blinking in red*
- Turn off the amplifier and check the speaker terminals or speaker cord for a short.

Lack of bass sound or obscure instrument position
- Check the speaker connection for proper phasing.
- Check the CARTRIDGE LOAD selector setting.

No tape recording
- Check that the AUDIO REC OUT SELECTOR switch is correctly set.

No video picture
- Check the video connections.
- Check the function switch setting of the video recorder.
- Check that the component TV is turned on.
- Check that the VIDEO button of the amplifier is depressed.

No video sound
- Check the video sound connections.
- Check the input selector of the video recorder.
- Check the VIDEO 1 or 2 button setting of the amplifier.
- When a TV tuner is used, check that its volume is set to maximum.

Severe hum or noise
- Keep the connecting cords away from transformers or motors, TV sets and fluorescent lights.
  When the TV set and audio components are too close together and used at the same time, separate them.
- Ground the turntable system.
- Disconnect the ground wire of the turntable from the ⏚ terminal when using a special designed MM cartridge.
- Make secure connections.
- Wipe the plugs and jacks with a cloth lightly dampened with methanol.

* This symptom may be caused when the protection circuits activate.

SPECIFICATIONS

(For the USA model)

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

TA-F555ESII

With 6ohm loads, both channels driven, from 20–20,000Hz; rated 150watts per channel minimum RMS power, with no more than 0.006% total harmonic distortion from 250milliwatts to rated output.
With 8ohm loads, both channels driven, from 20 – 20,000Hz; rated 120watts per channel minimum RMS power, with no more than 0.004% total harmonic distortion from 250milliwatts to rated output.

TA-F444ESII

With 6ohm loads, both channels driven, from 20 – 20,000Hz; rated 120watts per channel minimum RMS power, with no more than 0.006% total harmonic distortion from 250milliwatts to rated output.
With 8ohm loads, both channels driven, from 20 – 20,000Hz; rated 100watts per channel minimum RMS power, with no more than 0.004% total harmonic distortion from 250milliwatts to rated output.

OTHER SPECIFICATIONS

Amplifier

Item	Condition	TA-F555ESII	TA-F444ESII
Continuous RMS power output (both channels driven simultaneously)	4 ohms, 20 Hz – 20 kHz, THD 0.008%	—	140 W + 140 W (type 5)
	6 ohm, 20 Hz – 20 kHz, THD 0.006%	150 W + 150 W	120 W + 120 W (type 3, 4, 5 and Canada model)
		110 W + 110 W (For Sweden, Norway, Finland, Denmark and Switzland)	110 W + 110 W (type 1)
	8 ohms, 20 Hz – 20 kHz, THD 0.004%	120 W + 120 W	100 W + 100 W (type 3, 4, 5 and Canada model)
		90 W + 90 W (For Sweden, Norway, Finland, Denmark and Switzland)	90 W + 90 W (type 1)

Power bandwidth (IHF)	4 ohms, THD 0.02%		—	10 Hz – 100 kHz (type 5)
	6 ohms, THD 0.02%		10 Hz – 100 kHz	10 Hz – 100 kHz
	8 ohms, THD 0.02%		10 Hz – 100 kHz	10 Hz – 100 kHz
Dynamic headroom ('78 IHF)	4 ohms		—	2 dB (type 5)
	6 ohms		1.5 dB	1.5 dB
	8 ohms		1.2 dB	1.2 dB
Total harmonic distortion	4 ohms, at 10 watt output		—	0.006% (type 5)
	6 ohms, at 10 watt output		0.004%	0.004%
	8 ohms, at 10 watt output		0.002%	0.002%
Intermodulation (IM) distortion 60 Hz : 7 kHz = 4 : 1	4 ohms, at rated output		—	0.008% (type 5)
	6 ohms, at rated output		0.006%	0.006%
	8 ohms, at rated output		0.004%	0.004%
Damping factor	8 ohms, 1 kHz		125	50
Slew rate	—		125 V/μsec 250 V/μsec (inside)	125 V/μsec 250 V/μsec (inside)
Dynamic range	input TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio)		120 dB	120 dB
Channel separation (at 1 kHz)	PHONO	MC	80 dB	80 dB
		MM	95 dB	95 dB
	TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio)		100 dB	100 dB
Residual noise	network A		28 μV	28 μV
Frequency response	PHONO MM		RIAA equalization curve ±0.2 dB	RIAA equalization curve ±0.2 dB
	TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio)		2 Hz – 200 kHz $^{+0}_{-3}$ dB	2 Hz – 200 kHz $^{+0}_{-3}$ dB
			2 Hz – 100 kHz $^{+0}_{-3}$ dB (type 3)	2 Hz – 100 kHz $^{+0}_{-3}$ dB (type 3)

Item	Condition			TA-F555ESII	TA-F444ESII
Input sensitivity impedance	PHONO	MC	3 ohms	0.17 mV, 40 ohms	0.17 mV, 40 ohms
			40 ohms	0.17 mV, 100 ohms	0.17 mV, 100 ohms
		MM		2.5 mV, 50 kilohms	2.5 mV, 50 kilohms
	TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio)			150 mV, 50 kilohms	150 mV, 50 kilohms
Maximum input capability (1 kHz)	PHONO (1 kHz, THD 0.003%)	MC		9 mV	9 mV
		MM		150 mV	150 mV
S/N (network) *78 IHF	PHONO	MC		73 dB*, 70 dB (A)	71 dB*, 68 dB (A)
		MM		83 dB*, 87 dB (A)	83 dB*, 87 dB (A)
	TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio)			102 dB*, 97 dB (A)	102 dB*, 97 dB (A)
Output voltage impedance	REC OUT 1, 2, VIDEO 1 (audio)			150 mV, 1 kilohms	150 mV, 1 kilohms
	HEADPHONES			25 milliwatts (at 8 ohms) Accepts low and high impedance headphones.	25 milliwatts (at 8 ohms) Accepts low and high impedance headphones.
Tone controls	BASS, at 60 Hz			± 8 dB (turnover freq. 300 Hz)	± 8 dB (turnover freq. 300 Hz)
	TREBLE, at 25 kHz			± 8 dB (turnover freq. 5 kHz)	± 8 dB (turnover freq. 5 kHz)
BASS BOOST	at 50 Hz			+ 4 dB	+ 4 dB
SUBSONIC filter	—			6 dB/octave attenuation below 15 Hz	6 dB/octave attenuation below 15 Hz

Video

Item	Condition	TA-F555ESII	TA-F444ESII
Input/output	voltage	1 V_{p-p}	1 V_{p-p}
	impedance	75 ohms	75 ohms

General

System
Preamplifier section : low-noise IC NF type equalizer amplifier
Power amplifier section : quasi-complementary SEPP OTL OCL power amplifier with all stages direct coupled

Power requirements
Type 1, 3 : 220 V ac, 50/60 Hz
Type 2 : 120 V ac, 60 Hz
Type 4 : 240 V ac, 50 Hz
Type 5 : 120, 220, or 240 V ac adjustable, 50/60 Hz

Power consumption
TA-F444ESII :
Type 1 ; 270 watts
Type 2 (for the USA) ; 270 watts
(for Canada) ; 520VA
Type 3 ; 280 watts
Type 4 ; 260 watts
Type 5 ; 330 watts
TA-F555ESII :
Type 1 ; 310 watts
Type 2 (for the USA) ; 290 watts
(for Canada) ; 560 VA
Type 3 ; 310 watts

AC outlets
Type 1, 3, 4 : 1 switched, 100 watts max.
Type 2 : 2 switched, total 100 watts max., 2 unswitched, total 100 watts.
Type 5 : 1 unswitched, 100 watts max., 1 switched, 100 watts max.

Dimensions
Approx. 430 × 135 × 425 mm (w/h/d)
(17 × 5 3/8 × 16 3/4 inches)
including projecting parts and controls

Weight
TA-F444ESII :
Approx. 13.3 kg (29 lbs 6 oz) net
TA-F555ESII :
Approx. 15.1 kg (33 lbs 5 oz) net

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications.
We would ask you to check with your appointed Sony dealer if clarification on any point is required.

OPTIONAL CONNECTING CORD AND ADAPTOR LIST

Connecting equipment	Connecting cord	
Stereo video recorder/TV	(for video and audio) VMC-604S (1 m) VMC-605S (2 m)	phono plug ×3 ↔ phono plug ×3 Two EAC-57 plug adaptors are supplied with the VMC-604S/605S.
	(for audio) RK-74A (1.5 m) RK-113 (2 m)	phono plug ×2 ↔ phono plug ×2
Monaural video recorder/TV	(for video and audio) VMC-602MS (1 m) VMC-603MS (2 m)	phono plug ×2 ↔ phono plug ×3 Two EAC-57 plug adaptors are supplied with the VMC-602MS/603MS.
	RK-105A (1.5 m)	miniplug ↔ phono plug ×2
	RK-C71	phono plug ×2 ↔ phono plug ×1
To convert the plug	EAC-57	(BNC connector ↔ phono jack)
	EAC-58	(phono plug ↔ BNC connector)

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